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GOOD ROADS

COUNTRY SCHOOL IS FACTOR
Good Roads Mean Higher Moral and Educational Standard—Should Be Regarded as Investment.

BY EDWARD H. CROSS.
There is another factor that has an important bearing upon the highways, and that is the country school. Good roads mean better schools and a higher moral and educational standard; they bring the best instead of the worst out of people. Bad roads make one feel as though he did not care how he dressed or how he appeared. Whenever good roads are built the people begin to buy paint; the houses and the barns are treated; the picket fence disappears; the tumble-down one-story frame houses are abandoned and the lawn has attention; all these things come along in pace. Hence good road building should not be regarded as a mere expense but as an investment. They will pay a larger and surer return than money invested in almost any other direction. A high authority has said that with good roads the farmer can take advantage of the market; with bad roads the market nearly always takes advantage of the farmer. How many times the situation arises when prices are good and the farmer would like to get his corn or oats off or his hogs, that the roads are nearly impassable? If he attempts to reach market he does so seriously handicapped. There is little doubt that with good roads and watching the market, the farmer can get a better price for what he has to sell.

Here is a significant fact that we should not forget: That no state or community ever began the building of good roads—no more roads good 250 days in the year—and had the experience of making and paying for them, that they did not keep on building more and more good roads every year. This writer is not a prophet, but he makes this prediction: That before the gray hairs appear on the temples of the children who open their eyes first to the light of 1912, we will have a network of good roads that shall practically cover the whole country. Good Roads Mean Higher Moral and Educational Standard—Should Be Regarded as Investment.

RESULTS WILL BE INDIRECT

Missouri Roads Received but Temporary Improvements—Romans Built Slowly and Laboriously.
The chief results of the holiday of road-making recently presented by the governor of Missouri are likely to be indirect. After having failed and sweated in the sun those who took part will doubtless have a stronger interest in supporting good roads legislation, whether or not they are as keen to take part in the actual labor another year. But, while the Missouri roads may have received large temporary repairs and improvements, such a holiday, no matter how many participate in it, can hardly accomplish much in the way of permanent road making, says the Springfield Republican. And it is permanent road making of which the country stands in need. Without depreciating the Missouri performance it may be recalled that the Romans, the greatest road makers the world has known, did not do their work in spasmodic festivals; the roads that they built to last for centuries were built slowly and laboriously.

FEDERAL MONEY FOR ROADS

Appropriation of \$500,000, to Be Divided Among Thirty-Eight States in Small Beginnings.
The information conveyed through the American Washington reports concerning the appropriation of \$10,000,000 to this state from the federal appropriation of \$500,000 to assist in building good roads in the various states is important when the full significance is considered. The appropriation of \$300,000, to be divided among forty-eight states, is a very small beginning in the way of building government good roads, but it is a beginning, says the Baltimore American. It is of great significance that the government has made a start in the direction of federal aid in road building. The \$10,000,000 apportioned to Maryland goes to pay for one-third the cost of a short section of road in Montgomery county.

Maintaining Good Roads.
The making of good roads is one of the most important duties of the American people and their prompt repair and careful maintenance is essential. There is probably no subject in which the progressive farmer is more deeply interested than that of having roads connecting him with his markets and which he may be able to haul the greater possible load. Good roads, like all other good things, are too expensive to build and of too much value to be neglected.

Reduce Living Cost.
Good roads help to reduce the cost of living.

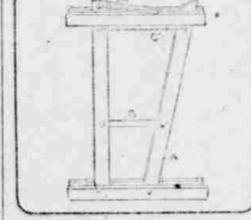
DAILY DAIRY

PROFIT FOUND IN INDUSTRY
Speak in a Cow as You Would to a Lady—Personal Equation Gives Advantage to Hand-Milking.

Two few business and dairy farmers give the needed recognition to the house on which the dairy industry is founded—the milk cow. One of the most successful of the early Wisconsin dairymen had for his motto, "Speak to a cow as you would to a lady," and when he was asked if he removed his hat when entering the stable door in the morning, he replied that he certainly would do so if he had the hat and when he saw the cow. He writes a commendable letter to Farm and Home.
What owner, especially in feeding has not noticed that some of his milkers were able to get more milk from the cows than were the other milkers? It is the personal equation, the regard the cow has for her attendant, that gives hand milking an advantage over the machine, and the more nearly the one has adopted her manner in the place of her call, the greater will be the success as a milker. There is usually a vast difference in results between the milker who sets a cow into position by pushing the leg of the stool into her flank and then kicks her on the shin to make her step back, and the one who grabs the same end with both hands and says, "When you please, please the cow for wanting to kick the first one?"
Aside from the knowledge of how to feed in general and the study of the special wants of the individual cow, to milk in the greatest success a man must win the affection of the cows. Some will say that is a simple thing. But if the cow and goat is yielding in respect and kind, and the man who milks her is kind and gentle, the milk will be better. It is not such a simple thing as milking the milk; she will take it as the result of this thing.

STANCHION IS SELF-CLOSING

Device is Operated Automatically by Action of Animal in Turning Its Head Through Bars.
A practical stanchion that will close automatically by the action of the beast when placing its head through the bars is shown in the sketch. The stanchion is made in the ordinary manner except that it is equipped with the self-closing parts, writes Ralph Crane of Ypsilanti, Mich., in the Regular Mechanic. When turning the stock out, the bar A must be thrown to one side and to set the



Automatic Closing Stanchion.
stanchion after this is done, it is only necessary to place the piece B as shown, so that the coil spring C will hold it in position. When the beast enters, its movement of the head downward trips the piece B, the spring force the bar A under the foot, and the stanchion is securely closed.

FORECAST OF FUTURE COWS

Constitution and Capacity Can Only Be Obtained by Supplying Need of Building Requirements.
By W. A. BARR, United States Division of Entomology, Colorado Agricultural College.
The best forecast of the future dairy cow is the number of pounds of feed received from weaning through two years of age. The relation between the productive capacity of the cow and the care given her during the growing period is quite constant. Constitution and capacity can only be gotten by supplying the necessary building requirements. Large, strong cows are the result of care while heifers. The dairyman must be both a breeder and feeder. Improper feeding defeats the very object sought by breeding. The dairy cow is a highly-specialized animal, and like all specialized animals, there is a tendency toward reversion, this tendency increasing with the more highly developed and improved animal. Smart feeding causes a reversion toward the unimproved type as does careless breeding.
The animal must adapt itself to its surroundings, and reversion is no more than adaptation; so if the food supply is not sufficient the greatest development, which means the greatest efficiency, is not possible.
Foundation for Separator.
The cream separator that vibrates will not do its best work nor last as long as the one that runs smoothly on a solid concrete foundation.

MOVING LARGE TREES

Impossible to Exercise Too Much Care in Transplanting.

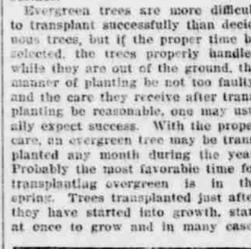
Trampling of Earth Around Roots is One of Most Important Features—Early Spring is Best Time Where the Soil is Wet.



A Convenient Method of Moving Large Trees.

In the digging and transplanting of trees, and especially in dry severe climates.
The time or reason of the year for transplanting deciduous trees is governed by the development of the tree, the condition of the soil, and the weather that is apt to follow transplanting. Many trees may be successfully transplanted at any time during their dormant or leafless period, while others require that transplanting be done at certain seasons of the year. If the trees are fully watered, the soil moist, not wet, and the winter not too severe, one may feel safe in fall planting. If the soil is wet and poorly prepared and the trees are not well ripened off, it is safer to plant in early spring. Deciduous trees should be planted from one to two inches deeper than they grew in the nursery. Thoroughly pulverized moist earth should be worked in among the roots, until the hole is about half full, and then this earth should be tamped until it is solid. The tramping of earth around the roots of the tree is one of the most important features of transplanting a tree.

Water may be applied to the hole either the day before the trees are planted or after the hole is half full of earth, but if the soil is moist it is usually best not to use any water. The upper half of the soil that is filled into the hole may be left loose or lightly tamped, and the surface left loose and finely pulverized. This will serve as a mulch as well as take up any water that may fall on the surface.
Evergreen trees are more difficult to transplant successfully than deciduous trees, but if the proper time is selected, the trees properly handled while they are out of the ground, the manner of planting be not too faulty, and the care they receive after transplanting be reasonable, one may usually expect success. With the proper care, an evergreen tree may be transplanted any month during the year. Probably the most favorable time for transplanting evergreen is in the spring. Trees transplanted just after they have started into growth, start at once to grow and in many cases



The Proper Way to Dig a Large Tree for Transplanting.

do not receive a perceptible shock. Fall planting has been successfully used in many localities, and where all conditions are favorable, it is a safe venture.
Large deep holes with plenty of moist earth in the bottom should be provided for any tree. During transplanting, the roots must never become dried either by the wind or from the sun. Another very important phase in tree-transplanting is to make the soil very, very firm around its roots. If the soil is well prepared and in proper condition, it is impossible to make it too firm. More newly transplanted evergreens die on account of the planter failing to make the soil firm about the roots than from any other single cause. This is the only safe way to exclude the air from the roots, and unless this is done, failure is sure to follow.

Bush Fruit Easy to Raise.

Blackberries and raspberries will thrive on almost any soil and under a variety of conditions. It is comparatively easy to propagate them, so there is little excuse for not having a small garden patch of this fine fruit.
Raise the Hen Manure.
Save the hen manure carefully for your garden. If your soil is heavy and wood ashes to the hen manure, but if the soil is light and sandy use leaf mold or rich loam.

Horticultural News

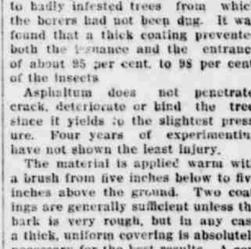
KILLING PEACH TREE BORERS
Worms Grow Rapidly and do Great Damage Between Bark and Wood—Asphaltum is Favored.

BY E. L. MORRIS.
The adult western peach tree borer is slender, blue-black, day-flying moths about an inch long. They issue more or less from February to September, but most of them appear about the middle of July. They place the eggs on the trunk of the tree from the ground up two feet, one to twenty-five eggs in a place. These are very small and generally escape notice. They hatch in a few days, and enter the bark at or near the ground. The burrow is marked by light brown bark dust, which in a few hours disappears, after which it is nearly impossible to find the opening. The worms grow rapidly, work their way



Work of Peach Tree Borer.

through the bark and spend most of their life between the bark and wood, where they may do great damage.
Gum flows as a result of this injury and is a fairly reliable indication of the presence of the large "worms." Unfortunately there is nothing to show the presence of the small ones.
The usual method of combating the peach borer is to dig out the worms during the winter or fall, but often the same cure is more damage than the borer, especially if the digging must be done for several years or by careless workmen.
Many preparations are being used on the trunks of trees; some to keep the moths from depositing eggs, some to prevent the borers from entering, some to kill those which have entered. None of these have been wholly satisfactory.
Experiments conducted at Berryessa, Cal., and which extended over four years, led the writer to use hard asphaltum, grades "C" and "D," with good results.
This was applied early in the spring to badly infested trees from which the borers had not been dug. It was found that a thick coating prevented both the entrance and the entrance of about 95 per cent. to 98 per cent. of the insects.
Asphaltum does not penetrate, crack, detach or blister the tree, since it yields to the slightest pressure. Four years of experimenting have not shown the least injury.
The material is applied warm with a brush from five inches below to five inches above the ground. Two coatings are generally sufficient unless the bark is very rough, but in any case a thick, uniform covering is absolutely necessary for the best results. A convenient way to handle the asphaltum is to mount an iron kettle on the running gear of an orchard truck and suspend beneath it a sheet iron apron as a fire box. Keep hard asphaltum in the kettle all the time so that the melted asphaltum will not get too hot to carry in small containers and apply directly to the trees. In the fall throw away the soil from the trees and dig



Asphaltum Treatment for Borers.

the borers. In the spring dig the borers again and apply a thick coating of asphaltum and replace the soil. Examining the trees each subsequent year to remove borers and to repair any thin or broken places in the asphaltum coating.
Inspecting Fruit for Storage.
Make a most thorough inspection of all fruits and vegetables before placing them in storage pits or "cellars" bins. The least amount of the skin on fruit will cause rot later on, and a speck of rot at this time will mean an entirely ruined product in midwinter, to say nothing of the other products it may contaminate and spoil.
Grafted Trees Preferred.
Grafted trees are always to be preferred to budded stock, since if the graft is planted deep, a root system usually is formed from the scion that it is hardy, while the seedling on which a tree is budding is often tender, and dies the winter after planting.

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HUSBAND RESCUED DESPAIRING WIFE

After Four Years of Discouraging Conditions, Mrs. Bullock Gave Up in Despair. Husband Came to Rescue.
Gairo, Ky.—In an interesting letter from this place, Mrs. Bettie Bullock writes as follows: "I suffered for four years, with womanly troubles, and during this time, I could only sit up for a little while, and could not walk anywhere at all. At times, I would have severe pains in my left side.
The doctor was called in, and his treatment relieved me for a while, but I was soon confined to my bed again. After that, nothing seemed to do me any good. I had gotten so weak I could not stand, and I gave up in despair.
At last, my husband got me a bottle of Cardui, the woman's tonic, and I commenced taking it. From the very first dose, I could tell it was helping me. I can now walk two miles without tiring me, and am doing all my work."
If you are all run down from womanly troubles, don't give up in despair. Try Cardui, the woman's tonic. It has helped more than a million women, in its 50 years of continuous success, and should surely help you, too. Your druggist has sold Cardui for years. He knows what it will do. Ask him. He will recommend it. Begin taking Cardui today.
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